## Attorney Docket No. 41000-000003/US Client Docket No. P24981/US

## Abstract of the Disclosure

An interpolator includes a half band filter, a first polyphase filter, a second polyphase filter and a linear interpolation filter. The polyphase filters, respectively, interpolate before and after an interpolation instant  $(\Delta)t/T_{r1}$ ) prescribed by a control signal (S).